

- D.** Suppose a Web site sells CDs for \$8.99 per disc. There is no tax, but there is a shipping charge of \$5 for any order. Write an equation to give the cost c of any order for n discs from the Web site.
- E.** Use your equations from Question C or make a rate table to answer each question.
1. How many discs do you have to order from the Web site to get a better deal than buying from Music City?
 2. How many discs do you have to order from the Web site to get a better deal than buying from CD World?

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3.4

What Does Dividing Tell You?

In this problem, the questions will help you decide which way to divide when you are finding a unit rate. The questions will also help you with the meaning of the quotient after you divide.

Getting Ready for Problem 3.4

Dario has two options for buying boxes of pasta. At CornerMarket he can buy seven boxes of pasta for \$6. At SuperFoodz he can buy six boxes of pasta for \$5.

At CornerMarket, he divided 7 by 6 and got 1.16666667. He then divided 6 by 7 and got 0.85714286. He was confused. What do these numbers tell about the price of boxes of pasta at CornerMarket?

Decide which makes more sense to you. Use that division strategy to compare the two store prices. Which store offers the better deal?

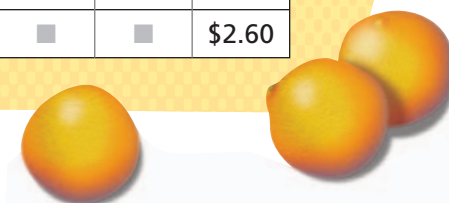
Problem 3.4 Two Different Rates

Use division to find unit rates to solve the following questions. Label each unit rate.

- A.** SuperFoodz has oranges on sale at 10 for \$2.
1. What is the cost per orange?
 2. How many oranges can you buy for \$1?
 3. What division did you perform in each case? How did you decide what each division means?
 4. Complete this rate table to show what you know.

Cost of Oranges at SuperFoodz

Oranges	10	■	1	20	11	■
Cost	\$2.00	\$1.00	■	■	■	\$2.60



- B.** Noralie used 22 gallons of gas to go 682 miles.
1. What are the two unit rates that she might compute?
 2. Compute each unit rate and tell what it means.
 3. Which seems more useful to you? Why?

- C.** It takes 100 maple trees to make 25 gallons of maple syrup.
1. How many maple trees does it take for 1 gallon of syrup?
 2. How much syrup can you get from one maple tree?



- D.** A 5-minute shower requires about 18 gallons of water.
1. How much water per minute does a shower take?
 2. How long does a shower last if you use only 1 gallon of water?
- E.**
1. At the CornerMarket grocery store, you can buy eight cans of tomatoes for \$9. The cans are the same size as those at CannedStuff, which sells six cans for \$5. Are the tomatoes at CornerMarket a better buy than the tomatoes at CannedStuff?
 2. What comparison strategies did you use to choose between CornerMarket and CannedStuff tomatoes? Why?

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